

# ☆ Balance the Array



Michael gives an array  $A=\{a_0, a_1, ..., a_{N-1}\}$  to Dwight. Michael then asks Dwight to find out whether there exists an element in the array such that the sum of elements on its left is equal to the sum of elements on its right.

In other words, is there an index **i** such that,  $\mathbf{a}_0 + \mathbf{a}_1 ... \mathbf{a}_{i-1} = \mathbf{a}_{i+1} + \mathbf{a}_{i+2} ... \mathbf{a}_{N-1}$ .

Complete the function *balanceSum* to help Dwight answer that question.

Note: If there are no elements to the left or to the right, then that sum is considered to be zero.

#### **Constraints**

 $1 \le N \le 10^5$  $1 \le A_i \le 2x10^4$  where  $0 \le i \le N-1$ 

#### **Input Format**

The first line contains a single integer N, the number of elements in array arr. The next N lines for each test case contains N integers that comprise the array arr.

#### **Output Format**

Return the *index, i,* if there exists an element in the array such that the sum of elements to its left is equal to the sum of elements to its right. Otherwise, return -1. Indexing will use a 0-based index.

#### Sample Input #00

4			
1			
2			
3			
3			

## Sample Output#00

2

### **Explanation #00**

A[0] + A[1] = A[3], therefore index 2 satisfies.

### **YOUR ANSWER**

We recommend you take a quick tour of our editor before you proceed. The timer will pause up to 90 seconds for the tour.





VMWare Challenge UR Propel

48m: 24s to test end



```
9 🔻 / *
     * Complete the function below.
10
     */
11
12
        static int isArray Balanced(int[] arr) {
13 ▼
             if (arr.length == 1) {
14 <del>-</del>
                 return 0;
15
16
             }
17
18
             int sum = 0;
19 ₹
             for (int i = 0; i < arr.length; i++) {
20
                 sum += arr[i];
21
             }
22
             int left = 0;
23
24
             for (int i = 0; i < arr.length; i++) {
25 ₩
                 if (left == sum - left - arr[i]) {
26
                      return i;
27
28
                 left += arr[i];
29
             }
```



3

VMWare Challenge UR Propel

48m : 24s to test end

Test against custom input

Run Code

Submit code & Continue

(You can submit any number of times)

🕹 Do

Lownload sample test cases The input/output files have Unix line endings. Do not use Notepad to edit them on windows.

## Compiled successfully. All available test cases passed!



Loct / aco # /	Viviware Challenge UK Propel :: ]	powered by mackerkank		
Test Case #2:	•	Test Case #4:		
Test Case #3:	•	Test Case #5:	<b>~</b>	
Testcase 1: Success				
Your Output				
2				
Expected Output				
2				
Testcase 2: Success				
Your Output				
Output hidden				
Testcase 3: Success				
Your Output				
Output hidden				
Testcase 4: Success				
Your Output				
Output hidden				
Testcase 5: Success				
Your Output				
Output hidden				

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